

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

Listing of Claims:

1. (Original): Process for the purification of riboflavin comprising the steps of
 - (a) precipitating a first crystalline form of riboflavin,
 - (b) isolating the first crystalline form of riboflavin,
 - (c) transforming the first crystalline form of riboflavin into a second crystalline form of riboflavin under conditions that decompose diluted DNA, and
 - (d) isolating the second crystalline form of riboflavin,provided that at ambient temperature the first crystalline form of riboflavin is thermodynamically less stable than the second crystalline form of riboflavin.
2. (Original): Process according to claim 1, characterized in that after step (b) the process comprises the step of pasteurizing the first crystalline form of riboflavin.
3. (Currently amended): Process according to claim 1 ~~any of the preceding claims~~, characterized in that the first crystalline form of riboflavin is a riboflavin hydrate.
4. (Original): Process according to claim 3, characterized in that the riboflavin hydrate is riboflavin dihydrate.
5. (Currently amended): Process according to claim 1 ~~any of the preceding claims~~, characterized in that the second crystalline form of riboflavin is riboflavin anhydrate I.

6. (Currently amended): Process according to claim 1 ~~any of the preceding claims~~, characterized in that in step (c) the conditions that decompose diluted DNA are acidic or basic conditions.

7. (Original): Process according to claim 6, characterized in that the acidic conditions are caused by an acid having a concentration of between 10^{-4} and 10^{-1} mol l⁻¹.

8. (Currently amended): Process according to claim 1 ~~any of the preceding claims~~, characterized in that in step (a) the precipitation of the first crystalline form of riboflavin is induced by means of seed crystals.

9. (Original): Process according to claim 8, characterized in that the seed crystals comprise seed crystals of a riboflavin hydrate.

10. (Original): Process according to claim 9, characterized in that the seed crystals of the riboflavin hydrate are seed crystals of riboflavin dihydrate or seed crystals of riboflavin monohydrate.

11. (Currently amended): Process according to claim 1 ~~any of the preceding claims~~, characterized in that step (c) is performed at a temperature of between 60°C and 75°C using

- (i) a mineral acid,
- (ii) a base, or
- iii) an organic acid.

12. (Currently amended): Process according to claim 1 ~~any of the preceding claims~~, characterized in that in step (c) a slurry containing the first crystalline form of riboflavin is pumped continuously through ~~through~~ a heat exchanger and further pumped through ~~through~~ a tube equipped with a jacket heating and either a multistage stirring system or static mixers.

13. (New): A process according to claim 2, wherein the first crystalline form of riboflavin is a riboflavin hydrate.

14. (New): Process according to claim 3, characterized in that the second crystalline form of riboflavin is riboflavin anhydrate I.

15. (New): Process according to claim 4, characterized in that the second crystalline form of riboflavin is riboflavin anhydrate I.

16. (New): Process according to claim 13, characterized in that the second crystalline form of riboflavin is riboflavin anhydrate I.

17. (New): Process according to claim 2, characterized in that in step (c) the conditions that decompose diluted DNA are acidic or basic conditions.

18. (New): Process according to claim 3, characterized in that in step (c) the conditions that decompose diluted DNA are acidic or basic conditions.

19. (New): Process according to claim 4, characterized in that in step (c) the conditions that decompose diluted DNA are acidic or basic conditions.

20. (New): Process according to claim 13, characterized in that in step (c) the conditions that decompose diluted DNA are acidic or basic conditions.